

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/KR2003/002149

A. CLASSIFICATION OF SUBJECT MATTER
IPC7 H04S 7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04S, H04R, G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR, JP: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20010037386A1 (Susumu Takatsuka et.al.) 01 NOVEMBER. 2001 See the whole document	1
A	US 20010043738A1 (Harpreet Singh Sawhney et.al.) 22 NOVEMBER. 2001 See the whole document	1
A	KR 20010028744A (Mahn-jin Han et.al.) 11 OCTOBER. 2001 See the whole document	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family


Date of the actual completion of the international search

20 JANUARY 2004 (20.01.2004)

Date of mailing of the international search report

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Information on patent family members

International application No.

PCT/KR2003/002149

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 20010037386A1	01-11-01	None	
US 20010043738A1	22-11-01	None	
KR 20010028744A	11-10-01	None	